	Application No.		
Notice of Allowability	09/191,577		
	Examiner	Art Unit	
	Angel A. Castro	2627	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate communication is selection is selection.	n this application. If not included unication will be mailed in due co	urse. THIS
1. This communication is responsive to <u>RCE filed 1/5/07</u> .			
2. The allowed claim(s) is/are 52-72, renumbered consecu	tively as allowed claims 1-21.		
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents had 2. Certified copies of the priority documents had 	ave been received.		
3. Copies of the certified copies of the priority	documents have been received	d in this national stage applicatio	n from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:		•	
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be sull INFORMAL PATENT APPLICATION (PTO-152) which go	NMENT of this application. bmitted. Note the attached EXA	AMINER'S AMENDMENT or NO	
5. CORRECTED DRAWINGS (as "replacement sheets") n	•		
(a) ☐ including changes required by the Notice of Draftsp		v (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	_	V (1 10-340) attached	
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment or		
Identifying indicia such as the application number (see 37 CFI each sheet. Replacement sheet(s) should be labeled as such i	R 1.84(c)) should be written on the time of the state of the seconding to 37 CF	he drawings in the front (not the back) R 1.121(d).	ack) of
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN 	POSIT OF BIOLOGICAL MATE IT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Not DLOGICAL MATERIAL.	te the
	•		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948	B) 6. ☐ Interview Si	ummary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08),		Mail Date Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposi of Biological Material	- .	Statement of Reasons for Allowa	ance
.< √	9.	- And Parks	C
		ANGEL CASTRO	O NER

Application/Control Number: 09/191,577

Art Unit: 2627

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114 was filed in this application after a decision by the Board of Patent Appeals and Interferences, but before the filing of a Notice of Appeal to the Court of Appeals for the Federal Circuit or the commencement of a civil action. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 1/5/07 has been entered.

Allowable Subject Matter

- 2. Claims 52-72 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The prior art of record neither suggest nor renders obvious the instant combination in a mounting interface for providing a steadfast relationship between a motor operated at a drive frequency and a baseplate, the mounting interface comprising three surface points having an angular distribution therebetween and providing a minimum planar surface acting as a common boundary between the motor and the baseplate, wherein the angular distribution, size, shape and material of the three surface points affect a vibration mode at a resonant frequency, and wherein at least one of the angular distribution, size, shape and material of the three surface points is

Application/Control Number: 09/191,577

Art Unit: 2627

configured to shift the resonant frequency away from the drive frequency to minimize vibration as set forth in independent claim52.

The prior art of record neither suggest nor renders obvious the instant combination in a data storage system, comprising: a storage medium; an actuator including a transducer disposed at a distal end of an actuator arm; an actuator motor, coupled to the actuator, for moving the transducer relative to the storage medium; a baseplate; a spindle motor for rotating the storage medium; a mount flange, coupled to the spindle motor, for coupling the spindle motor to the baseplate; and a mounting interface disposed between the mount flange and the baseplate, the mounting interface providing a steadfast relationship between the spindle motor operated at a drive frequency and the baseplate, the mounting interface comprising three surface points having an angular distribution therebetween and providing a minimum planar surface acting as a common boundary between the motor and the baseplate, wherein the angular distribution, size, shape and material of the three surface points affect a vibration mode at a resonant frequency, and wherein at least one of the angular distribution, size, shape and material of the three surface points is configured to shift the resonant frequency away from the drive frequency to minimize vibration as set forth in independent claim 59.

The prior art of record neither suggest nor renders obvious the instant combination in a method for reducing acoustic dynamics of a spindle motor, comprising: providing a motor operated at a drive frequency; providing a baseplate; forming a mounting interface for providing a minimum planar surface acting as a common boundary between the motor and the baseplate and having three surface points having an angular distribution therebetween, wherein the angular distribution, size, shape and material of the three surface points affect a vibration mode at a

Application/Control Number: 09/191,577

Art Unit: 2627

resonant frequency; and configuring at least one of the angular distribution, size, shape and material of the three surface points to shift the resonant frequency away from the drive frequency to minimize vibration as set forth in independent claim 66.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel A. Castro whose telephone number is 571-272-7584. The examiner can normally be reached on Monday through Thursday, 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Angel Castro, Ph.D.